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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/487,151	01/19/2000	Franz Amtmann	PHO 99,503	2834	
7:	590 08/25/2003				
U.S. Philips Corporation			EXAMI	EXAMINER	
580 White Plains Road Tarrytown, NY 10591			HA, DAC V		
			ART UNIT	PAPER NUMBER	
			2634	a	
			DATE MAILED: 08/25/2003	$\boldsymbol{\nu}$	

Please find below and/or attached an Office communication concerning this application or proceeding.

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• •	Application No.	Applicant(s)			
Office Action Summany	09/487,151	AMTMANN ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this communication on	Dac V. Ha	2634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 16	<u>June 2003</u> .				
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims A) Claim(a) 1.3.5 and 7.30 in/ore pending in the	application				
4) Claim(s) 1,3-5 and 7-20 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3-5 and 7-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)⊠ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on	_ is: a)□ approved b)□ dis	approved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. §	119(e) (to a provisional application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Ad	ction Summary	Part of Paper No. 9			

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

There is no heading for each section of the disclosure. It is suggested that the disclosure is made to correspond to the guideline set forth below.

Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data shet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development:</u> See MPEP § 310.
- (d) Incorporation-By-Reference Of Material Submitted On a Compact Disc:
 The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.

Or alternatively, Reference to a "Microfiche Appendix": See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject

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matter of the claimed invention. This item may also be titled "Technical Field."

- (2) Description of the Related Art including information disclosed under 37 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) Brief Description of the Several Views of the Drawing(s): See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural

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indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).

- (j) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (k) <u>Sequence Listing.</u> See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

Appropriate correction is required.

Claim Objections

2. Claims 1, 3-5, 7, 10-13, 15, 20 are objected to because of the following informalities:

Claim 1, lines 13, 15, 18, the recitation "said data signal" should be changed to "said encoded data signal".

Claim 10, line 9, the recitation "said data signal" should be changed to "said encoded data signal".

Claim 12, lines 1-2, the recitation "RTZ" and "MI" should be defined (i.e. spelled out).

Claim 20, line 2, the recitation "PSK" should be defined (i.e. spelled out).

Claim 5 recites "a storage stage" "prior to the decoding", however, the drawing, Figure 1, shows the opposite.

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Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. **Claim 9** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. **Claim 9** recites the limitation "the encoding means" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1, 3, 4, 7-14, 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Dent et al. (US 6,044,485) (hereinafter Dent).

Regarding claim 1, Dent teaches the followings.

"receiving means ... encoded data signal" (Figure 2, element 200; Col. 4, line 57)

"demodulation means ... contained therein" (Figure 2, element 204; Col. 4, lines 58-59)

"decoding means ... data" (Figure 2, elements 208 and 210)

"data processing means ... decoding means" (Figure 2, elements 212 and 214)



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"the decoding means including ... with a second encoding method" (Figure 2, elements 208 and 210; Col. 4, lines 64-65, 8-16)

"a decision stage ... further processing" (Figure 2, elements 212 and 214; Col. 5, lines 1-19).

Regarding claims 10, 14, see claim 1 above.

Regarding claim 3, Dent further teaches the claimed subject matter "wherein ... data signal" in Col. 5, lines 1-19.

Regarding claim 4, Dent further teaches the claimed subject matter "wherein ... data signal" in Col. 5, lines 1-19.

Regarding claim 7, Dent further suggests the teaching of the claimed subject matter "further comprising ... second encoding stages" in Col. 3, lines 55-58.

Regarding claim 8, Dent further suggests the teaching of the claimed subject matter "wherein ... third method" in Col. 1, lines 40-41; Col. 3, lines 12-14.

Regarding claim 9, Dent further suggests the teaching of the claimed subject matter "further ... encoding means" in Figure 1, element 116; Col. 4, lines 50-54.

Regarding claim 10, Dent further suggests the teaching of the claimed subject matter "wherein ... different" in Col. 4, lines 8-16.

Regarding claim 12, Dent further suggests the teaching of the claimed subject matter "wherein ... MI" in Col. 1, lines 40-41; Col. 3, lines 12-14.

Regarding claim 13, Dent further suggests the teaching of the claimed subject matter "wherein ... data signal" in Col. 5, lines 1-19.

Regarding claim 15, see claim 11.

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Regarding claim 16, see claim 13.

Regarding claim 17, see claim 3.

Regarding claim 19, see claim 7.

Regarding claim 20, see claim 12.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 5, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dent.

Regarding claim 5, the claimed subject matter "wherein ... decoding stages" would have been optional to one skilled in the art (for reference only, see Poon et al. US 6,192,070).

Regarding claim 18, see claim 5.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536.

The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9314

for regular communications and 703-746-5813 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 305-5500.

Dac V. Ha Examiner

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DH

August 12, 2003

STEPHEN CHIN

SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTER 2600